

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/532,421	04/22/2005	Naoyuki Toriumi	58181US004	3739	
	32692 7590 09/04/2007 3M INNOVATIVE PROPERTIES COMPANY			EXAMINER	
PO BOX 33427 ST. PAUL, MN 55133-3427			SZEKELY, PETER A		
SI. PAUL, MN	1 33133-342/		ART UNIT PAPER NUMBER		
		1714			
			NOTIFICATION DATE	DELIVERY MODE	
			09/04/2007	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

LegalUSDocketing@mmm.com LegalDocketing@mmm.com

		Application No.	I A multi-control				
Office Action Summary		Application No.	Applicant(s)				
		10/532,421	TORIUMI ET AL.				
		Examiner	Art Unit				
		Peter Szekely	1714				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address				
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DAISIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period we are to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	TE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tin iii apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status		•					
1)⊠	Responsive to communication(s) filed on 22 April 2005.						
2a) <u></u>	This action is FINAL . 2b)⊠ This action is non-final.						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	ion of Claims						
4)⊠	4)⊠ Claim(s) <u>10-20</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)□	5) Claim(s) is/are allowed.						
	Claim(s) <u>10-15 and 17-20</u> is/are rejected.						
	Claim(s) <u>16</u> is/are objected to.						
8)[Claim(s) are subject to restriction and/or	election requirement.					
Application Papers							
9)□	The specification is objected to by the Examiner	•					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority u	ınder 35 U.S.C. § 119						
12)	Acknowledgment is made of a claim for foreign p	priority under 35 U.S.C. § 119(a)	-(d) or (f).				
a)L	a) All b) Some * c) None of:						
	 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 						
	 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 						
	application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.							
Attach=====	(4)	•					
Attachment	(5) o of References Cited (PTO-892)	4) 🔲 Interview Summary ((PTO 412)				
2) 🔲 Notice	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	te				
	nation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date <u>1/17/06.7/26/07</u> .	5)	atent Application				

Application/Control Number: 10/532,421

Art Unit: 1714

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

- 2. Claims 10-15 and 17-20 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for a heat curing agent comprising a rosin having a carboxyl group in the molecule, does not reasonably provide enablement for any other heat curing agent. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make or use the invention commensurate in scope with these claims. There is no other heat-curing agent mentioned in the entire specification. One of ordinary skill in the art, at the time the invention was made, would have to undertake undue experimentation to find other suitable heat curing agents for the composition of claim 1. See In re Wands, 8 USPQ2d 1400, 1404 (Fed. Cir. 1988). The examples are not helpful either.
- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.
- 4. Claims 17 and 20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 5. Claim 20 does not make sense. A heat curable adhesive cannot have an adhesive. It is an adhesive.

Page 2

Application/Control Number: 10/532,421 Page 3

Art Unit: 1714

6. The term "Thin film" in claim 17 is a relative term, which renders the claim indefinite. The term "thin film" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention. How thin is the thin film? How different is the thin film of claim 17 from the film of claim 18?

Allowable Subject Matter

- 7. Claim 16 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter Szekely whose telephone number is (571) 272-1124. The examiner can normally be reached on 7:00 a.m.-5:30 p.m. Tuesday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan can be reached on (571) 272-1119. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Peter Szekely Primary Examiner Art Unit 1714

P.S. 8/27/07